We claim:

1	1.	A method of regulating an average rate of transmission on a computer network
2		employing TCP, comprising the steps of:
3		determining an amount of available space in a receive buffer; and
4		removing data from the receive buffer such that the amount of available
5		space in the receive buffer is maintained at a regulated value.
1	2.	The method of claim 1, wherein the step of removing data includes regulating the
2		frequency at which data is read from the receive buffer.
1	3.	The method of claim 1, wherein the step of removing data includes regulating the
2		amount of data read during each read from the receive buffer.
1	4.	The method of claim 1, wherein a receiver measures an actual transfer rate.
1	5.	The method of claim 1, wherein the step of determining an amount of available
2		space in a receive buffer is performed by a rate control module located on a
3		receiver.
1	6.	The method of claim 5, wherein the rate control module operates above a TCP
2		layer and communicates with the TCP layer via a TCP application programming
3		interface.
1	7.	The method of claim 1, wherein the average rate of transmission is regulated to an
2		extent sufficient to reduce the effect that a transmission has on another
3		transmission in the computer network.
1	8.	The method of claim 1, wherein the step of removing data uses a determined
2		frequency of lost packets.

1	9.	A method of regulating an average rate of transmission on a computer network
2		employing TCP, comprising the steps of:
3		determining an amount of available space in a receive buffer; and
4		regulating an available space in the receive buffer by regulating a size of
5		the receive buffer.
1	10.	The method of claim 9, wherein a receiver determines an actual transfer rate.
1	11.	The method of claim 9, wherein the step of determining an amount of available
2		space in a receive buffer is performed by a rate control module located on a
3		receiver.
1	12.	The method of claim 11, wherein the rate control module operates above a TCP
2		layer and communicates with the TCP layer via a standard TCP application
3		programming interface.
1	13.	The method of claim 9, wherein the average rate of transmission is reduced.
1	14.	The method of claim 13, wherein the reduction in average rate of transmission is
2		sufficient to reduce the effect that a transmission has on an other transmission in
3		the computer network.
1	15.	The method of claim 9, wherein the step of reducing the receive buffer size uses

determined frequency of lost packets.

1	16.	A system for regulating an average rate of transmission on a computer network,
2		comprising:
3		a receive buffer located on a receiver; and
4		a rate control module operable to determine available space in the receive
5		buffer and to regulate a rate at which data is removed from the
6		receive buffer, such that the amount of available space in the
, 7		receive buffer is maintained at a regulated value.
1	17.	The system of claim 16, wherein the rate control module regulates the rate at
2 -		which data is removed by varying the frequency at which data is read from the
3		receive buffer.
1	18.	The system of claim 16, wherein the rate control module regulates the rate at
2		which data is removed by varying the amount of data read during each read from
3		the receive buffer.
1	19.	The system of claim 16, wherein the rate control module operates above a TCP
2		layer and communicates with the TCP layer via a standard TCP application
3		programming interface.
1	20.	The system of claim 19, wherein the rate control module operates between the
2		TCP layer and an FTP/HTTP layer.
1	21.	The system of claim 19, wherein the rate control module is integrated into a
2		FTP/HTTP layer.
1	22.	The system of claim 16, wherein the average rate of transmission is reduced.
1	23.	The system of claim 22, wherein the reduction in average rate of transmission is
2		sufficient to reduce the effect that a transmission has on another transmission.

1	24.	The system of claim 16, wherein the regulation of a rate at which data is removed
2		is a function of a determined frequency of lost packets.
1	25.	A system for transmitting data over a computer network employing TCP,
2		comprising:
3		a sender;
4		a receiver;
5		a receive buffer located on the receiver; and
6		a rate control module configured to regulate an amount of space available
7		in the receive buffer to influence an average rate that data is
8		transferred from the sender to the receiver.
1	26.	The system of claim 25, wherein the rate control module regulates the amount of
2		space available in the receive buffer by varying the frequency at which data is
3		read from the receive buffer.
1	27.	The system of claim 25, wherein the rate control module regulates the amount of
2		space available in the receive buffer by varying the amount of data read during
3		each read from the receive buffer.
1	28.	The system of claim 25, wherein the rate control module operates above a TCP
2		layer and communicates with the TCP layer via a standard TCP application
3		programming interface.
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1	29.	The system of claim 28, wherein the rate control module operates between the
2		TCP layer and an FTP/HTTP layer
1	30.	The system of claim 28, wherein the rate control module is integrated into a
2		FTP/HTTP layer.
1	31.	The system of claim 25, wherein the average rate of transmission is reduced.

- 1 32. The system of claim 31, wherein the reduction in average rate of transmission is sufficient to reduce the effect that a transmission has on an other transmission.
- 1 33. The system of claim 25, wherein the rate control module regulates the amount of space using a determined frequency of lost packets.
- 1 34. The system of claim 25, further comprising at least a transfer manager regulating communication between the sender and the receiver.
- 1 35. The system of claim 34, wherein the transfer manager includes at least a schedule/priority manager.